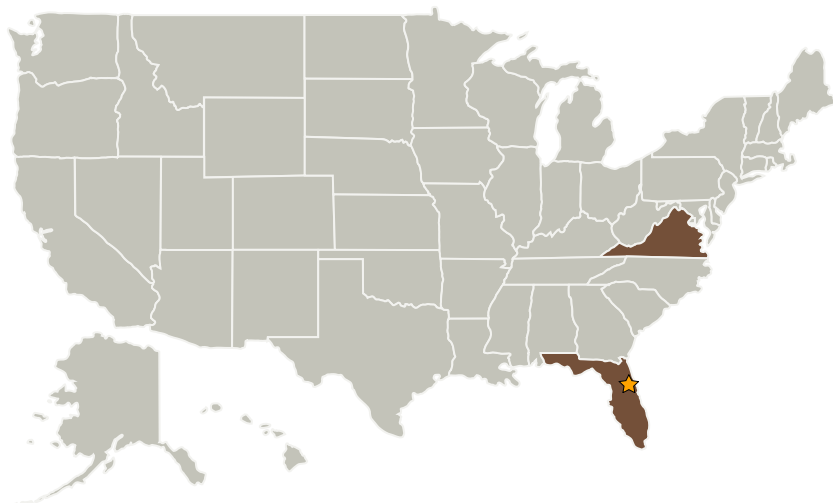


Energy Efficient Cryogenic Transfer Line with Magnetic Suspension,
Phase I

Completed Technology Project (2001 - 2002)



Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Kennedy Space Center(KSC)	Lead Organization	NASA Center	Kennedy Space Center, Florida
AMAC International Inc	Supporting Organization	Industry	Newport News, Virginia

Primary U.S. Work Locations

Florida	Virginia
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Energy Efficient Cryogenic
Transfer Line with Magnetic
Suspension, Phase I

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Organizational
Responsibility**Responsible Mission Directorate:**

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Kennedy Space Center (KSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Energy Efficient Cryogenic Transfer Line with Magnetic Suspension, Phase I

Completed Technology Project (2001 - 2002)



Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Quan-sheng Shu

Technology Areas

Primary:

- TX14 Thermal Management Systems
 - └ TX14.1 Cryogenic Systems
 - └ TX14.1.1 In-space Propellant Storage & Utilization